

WHAT IS CLAIMED IS:

1. A disk, comprising:  
a disk bore disposed about a centerline, said disk bore having a bore width; and  
said disk bore comprising a contoured shape having a contour depth.
2. The disk of claim 1, wherein said contoured shape is a smooth curve.
3. The disk of claim 2, wherein said smooth curve is a conic section.
4. The disk of claim 3, wherein said smooth curve is semi-circular.
5. The disk of claim 1, wherein said contoured shape comprises a blend radius.
6. The disk of claim 1, wherein a ratio of said contour depth divided by said bore width is between .04 and .12.
7. The disk of claim 6, wherein said ratio is greater than .05.
8. The disk of claim 1, wherein said contour depth and said bore width reduce a maximum hoop stress differential across said disk bore as compared to a disk bore having a contour depth equal to 0.